

# T H E 5 0 M H z D X B U L L E T I N

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## N O R T H A M E R I C A N N E W S

**H18A DOMINICAN REPUBLIC:** A recent issue of JR3HED's 50 MHz World News reported that Akito Nagi H18A will soon be QRV on 6M. JE3MAS (ex: 5H1YK) has sent him a Kenwood TS660 and an HL166V amplifier. Akito's 6M antenna is already installed - a 5 element yagi at 50 meters high. QSL's can be sent either direct or via Akito's home callsign - JA5DQH. H18A has been quite active on the HF bands and I understand that he is a good QSL'er. This is most welcome news as many are still having difficulties securing confirmations from H18W and H18PM. Let's hope that Akito gets his 6M equipment up and running in time for the Es season!  
**QSL INFO:** Akito Nagi, P.O. Box 1163, Santo Domingo, Dominican Republic  
 Akito Nagi, P.O. Box 73, Ishii, Tokushima, 779-32 Japan

**HI0VHF BEACON:** A beacon signing HI0VHF was reported by Peter PY5CC on April 30, 1991 at 1421Z. It is not known at this time whether this beacon is operational from H18A's QTH or from another location. When I can get full confirmation on this beacon as well as its operating parameters I will be sure to print the details in a future issue of the Bulletin.

**GREENLAND OPERATION PLANNED BY F6GOX:** The following item comes from Ted Collins G4UPS:  
 "I was informed by John KP2A on April 15th that F6GOX will be operational on all bands including 6M from Greenland: July 1 to August 31. According to John he will run a keyer on 50.025 MHz with the callsign OX3BCN. Further information, including QSL route when I have it to hand."

**REPORT FROM WA4OSR:** Mitch Mitchell WA4OSR of Mobile, Alabama sends along the following:  
 "There was a short band opening to VK on Sunday morning, April 28th starting at 0111Z and lasting to about 0156Z. I worked 12 VK's, including VK2QF, VK5NY, VK3AKK, VK2ZXC, VK3AZY, VK2AMK, VK2VC, VK5RO, VK5KL, VK5BC, and VK3OT. The band was really open with a couple of stations being S9 to 10dB over or better. These contacts were made with my low power station, a Yaesu FT767 with the 6M module barefoot (10 watts) to a 5 element yagi up 25 feet. Six has always been my favorite band, but I have been off for a few years. I have been bit by the "six bug" again and have 70 feet of tower laying in the back yard waiting to go up. I am looking at antenna alternatives."

**QSL INFO:** S. Felton Mitchell Jr. WA4OSR, 11 Midtown Park East, Mobile, Alabama 36606

**REPORT FROM NT0J:** Steve Gehring NT0J (MS EM50) sends along the following letter:  
 "I have just returned to six meters after a couple of years absence and I am active with 150 watts output to a small 3-over-3 stack at 1 and 1.7 wavelengths. There are 3 very active 6M stations on listening daily to 50.110 and 50.125 MHz in EM50 - WN2E, W5OXA, and myself. Also, the Keesler AFB Club has their 6M station up and running after several years absence. WN2E and myself are willing to go to rare grids in and around the three state area of Mississippi, Louisiana, and Alabama during contests, if many people need a certain grid."

**QSL INFO:** Steve Gehring NT0J, 261 Park Court Road, Biloxi, Mississippi 39530

**W5OZI GRID EXPEDITION PLANNED FOR LATE JUNE:** Pat Rose W5OZI is planning a Grid Expedition to the Big Bend area of Texas between June 27-30. Most of the operation will take place from DL88, but other areas to be operated from include DL79, DL89, DL99 and DM70, DM80, DM90.

## C O N T E S T U P D A T E S

**1991 ARRL 50 MHz SPRING SPRINT:** The 9th Annual ARRL 50 MHz Spring Sprint will take place on May 25th and 26th. This 4-hour contest begins at 2300Z on Saturday May 25th and ends at 0300Z on Sunday May 26th. The rules for this event are very simple - work each station on 6M only once (regardless of mode) and exchange grid square locators (signal reports are optional). The activity levels for this event have dropped off over the last few years, due in part to the lack of sporadic-E. Let's hope that this year the conditions cooperate!

**CQ VHF WPX CONTEST CANCELLED:** The ARRL Letter dated May 2, 1991 reported that CQ Magazine's VHF WPX Contest scheduled for the weekend of July 12, 1991 has been cancelled, this according to CQ's Contest Editor John Dorr KIAR. The magazine was unable to find a volunteer administrator for the event.

**NOTE:** During the 1990 Dayton Hamvention I spoke with several of the "brains" behind CQ Magazine regarding changes to the VHF WPX Contest (in addition to the implementation of a VHF WPX Award) which would have created much more participation and interest. I can tell you emphatically that CQ is not interested in VHF. They were not interested in what I had to say and they would probably be pleased to see this whole "VHF thing" fade off into the sunset. It is in my opinion that their brain-trust has the "HF mentality" and they have no idea whatsoever of what is taking place on the VHF bands....sad, but true....DE KA3B.



**REPORT FROM GØJHC:** Neil Carr GØJHC sends along the following letter:

"I have noticed in the last few issues of the newsletter one or two of the well-situated Europeans commenting on 6M propagation. I often wonder if stations outside Europe appreciate the different propagation experienced from one end of the country to the other, only a distance of about 250 miles.

Please, can I make a plea through the DX Bulletin for DX stations to listen for Northern G-land on occasions. We are often on the edge of openings and require a little good will in order to make contacts. For example, up here in the north (54° latitude), openings very rarely last more than a few minutes if at all on certain paths. To the east, signals from JA have never been received at my QTH where in the south (51° latitude), this path has regularly opened during the spring and fall over the last 3 years. The N/S path is only really workable when the lower latitude stations are prepared to stand-by as signals rarely move the S-meter up here. Openings to South America and the Caribbean often see propagation falling off at around 52° latitude.

I recently heard one well-known European commenting on the fact that he was very disappointed he hadn't had any propagation for two whole days! I wonder what his comments would be if he had no propagation for two whole months. I wouldn't be at all surprised if his interest in the band ceased. There are many dedicated operators up here in the North still waiting to contact alot of the "everyday DX" reported further South. If you would like some new callsigns in your log during the next UK opening, why not take a special listen for the guy still needing you for a new country? We might be weak, but the effort would be much appreciated. Up to this date I have heard 97 countries on 6M and worked 83 of them. Most of my openings can be counted in seconds rather than minutes. If you've got the time it still can be done from up here, but 250 miles is the difference between many openings and very few."

**QSL INFO:** Neil Carr GØJHC, 43 Moorhey Drive, Penwortham, Preston, PR1 OSS, Lancs, U.K.

**LAMPEDUSA ISLAND EXPEDITION PLANNED BY DK2EG:** Joe DK2EG hopes to be active from the Island of Lampedusa for 1 or 2 weeks during this summer. He hasn't received his permit yet, therefore he can't give any more info. The grid is JM65 and the call would be IG9/DK2EG. (DK2EG via ZS6AXT on 28.885)

**LUXEMBOURG OPERATION PLANNED BY PE1NHS & PEØHME:** PE1NHS and PEØHME will be active /LX from June 29 until July 14. They will be in grid JO30 and likely run 25 watts into a 2 or 4 element yagi. QSL's will be via their home calls. (Txn PA3EUI: PE1NHS via telephone)

**LIECHTENSTEIN OPERATION PLANNED BY PA3EUI & PA3FOP:** PA3EUI and PA3FOP hope to get permission to operate as /HBØ from August 10-18. A good location has been found on the Maurer Berg at 1275m ASL within grid JN47se. Other information will be given if and when permission is received. (Txn PA3EUI)

**1AØKM ACTIVITY UPDATE:** The Sovereign Military Order of Malta amateur station activated by several Italians from April 25th to May 1st only managed to work a few European stations on 6M meteor scatter. They had no Es propagation during their stay.

**C3ØEUA ANDORRA:** The DX Bulletin which is published by Chod Harris VP2ML reported that several members of the HB9MM club were to operate as C3ØEUA between May 10-20 on 160-6M. It was my understanding that the Andorran authorities would not allow 6M operation by visiting stations. However, this ruling may have been changed. I have not heard any reports of C3ØEUA being worked or heard on 6M thus far.

**QSL INFO:** HB9MM, Box 3705, CH1002 Lausanne, Switzerland **NOTE:** Return postage is about US \$1.50. (Txn TDXB)

**POLISH AMATEURS MAY BE GRANTED USE OF THE 6M BAND:** According to Chris Partridge G8AUU, the Band I (VHF) TV transmitters in Poland were to go QRT on April 31st. These transmitters would then be replaced by those operating in the UHF spectrum. This move would "open the door" for the issuance of 6M permits.

**NOTE:** I received word a few weeks ago that Chris G8AUU was to depart for Krakow, Poland for a 1-month stay. During this visit, Chris along with members of the local radio club in Krakow were to carry out test transmissions on the 6M band. These transmissions were to be under the supervision of the Polish authorities at all times and would last until May 31st. A decision would possibly be made, depending on the outcome of these tests, as to whether SP would be granted a 6M allocation (as possibly early as June). Just prior to this issue of the Bulletin going to the printer, I had received further information that Chris was not able to obtain a Yaesu FT650 in time for his trip to Poland. I do not know at this time how this development would affect the planned "6M tests."

**U.K. SIX METRE GROUP "SUMMER SPORADIC Es CONTEST":** To take advantage of the summer Es on 6M and the resulting high level of activity, the UK Six Metre Group will hold this fun contest on June 8-9, 1991. The contest is open to all members of the UK Six Metre Group and if you note closely from the dates, this contest will overlap with the ARRL June VHF QSO Party which will be held on the same weekend. The Es Contest will begin at 0000Z on June 8 and will end at 2400Z on June 9 = 48 hours. Valid QSO's are 2-way QSO's on 6M and crossband QSO's with countries without 6M allocations. Only one QSO per station and all inter-European contacts should be outside the DX Window of 50.100 to 50.130 MHz. The exchange is calls, RS(T), membership number, Maidenhead Locator (4 digits OK). Serial numbers are not required. To obtain copies of the official rules and log sheets, write to: Byron Fletcher G6HCV, 2 Slade Gardens, Codsall, South Staffs WV8 1BJ, England. Be sure to include enough funds and/or postage/IRCS's for a reply. (NOTE: If any subscribers of the Bulletin outside of Europe would like to receive copies of the official rules and log sheets, please send me an SASE....DE KA3B).

## A F R I C A N       N E W S

**9J2FR ZAMBIA:** Renzo I2KRR will be QRV from Zambia as 9J2FR sometime during May/June 1991. He will be QRV with an 1C726 and a 5 element yagi from Kafue. QSL via his home callsign. (Txn G4UPS)

**FR4FM REUNION ISLAND:** Gerard FR4FM is now QRV on 6M with an FT690, 10 watt amplifier, and a 5 element yagi. He worked into Europe for the first time on April 3rd and worked into JAL-6 with very strong signals at 0700-1100Z on April 1st. His locator is LG79rd.

**QSL INFO:** P.O. Box 1222, St. Denise, F-97400 Reunion Island (via France)

**JH8PHT/CN MOROCCO:** Kazuo JH8PHT is in Casablanca, Morocco and is listening on 6M with a Yaesu FT690 and Hentenna at 25m high. He has applied for a license to transmit on 6M. (Txn JR3HED)



A22BW	- DK3KD	FW/N6LYB	- JG3GMG	KH8AH	- JH4IFF	TL8MB	- FELJJK
A35AS	- DJ9ZB	FW/W6JKV	- W6JKV	KH8/JJ2ICA	- JJ2ICA	TR8BL	- W3HNK
A35EM	- JR1FYS	FY/FELJJK	- FELJJK	KH8/N2HNQ	- JH4IFF	TR8CA	- W6BF
A35EM (91)	- JA1OEM	H44X	- H44SI	KH8/N6AMG	- AE6H	TR8DX	- WA4VDE
A35IC	- JJ2ICA	HB0/HB9QQ	- HB9QQ	KH8/NH6RT	- JH4IFF	TR8JLD	- AK1E
A35JT	- W6JKV	HC5K	- KT1N	KH8/SM7PKK	- SM7PKK	TT8CW	- F2CW
AH3C	- K9UIY	HC8K	- KT1N	KH9/AH2BE	- KA6V	TU4DH	- F3HT
AH3AD	- KD0FZ	HC8U	- W6UE	KH9/N8BJQ	- N8BJQ	V200PI/JR	- G3OKQ
AH9AC	- I8YCP	HC8GR	- KT1N	KH0AC	- K7ZA	V21/JJ1TZK	- JJ1TZK
AH0H	- JR1FVH	HC8VB	- KT1N	KH0/JH3TXR	- JH3TXR	V2A/W6JKV	- W6JKV
AH0/AH6JJ	- JI1DLZ	HC8/WV7Y	- WV7Y	KP2A	- W3HNK	V2A/N4HSM	- N4HSM
AH0AD	- JF1IRW	HH7PV	- N2AU	KP4BZ	- KZ0C	V2A/W7KNT	- W7KNT
BT1CQ	- JR1HHL	HI8A	- JA5DQH	KP5/KP2A	- N6CW	V29A	- W4FRU
BT5MH	- JA1FUY	HI8DAF	- K3EST	KP5/W6JKV	- W6JKV	V290A	- W7KNT
BV0AE	- JA1UT	HL9CB	- KE0SC	KV4FZ	- W2GHK	V3FB	- WA4WIP
C21NI	- VK2ZNC	HL9TF	- WB0DUL	KX6DW	- KX6BU	V3GE	- W6JKV
C6ADV	- W1DDV	HL9TG	- WA7TNF	KX6OI	- KX6BU	V31AB	- WA4WIP
C6AFP	- N4JQQ	HL9TM	- K3LTV	KX6TY	- KX6BU	V31IV	- W6JKV
C6AFR	- WA4VCC	HP3XAT	- WB3KGY	LA0BY	- DF9FY	V44KA	- N0DH
C6ANY	- W2GHK	HR1LW	- JALLW	LU1MMX	- LU8MBL	V47A	- JJ1TZK
C6A/KM1E	- KM1E	HR/K6MYC	- K6MYC	LU2DEK	- G3RFS	V47EZD	- JA2MNB
C6A/KA3B	- KA3B	HR/WA6GXF	- WA6GXF	LU5EZT/MM	- LU3EX	V47SIX	- N4HSM
C6A/KB4CRT	- KB4CRT	HV3SJ	- I0DUD	NP2/N6CW	- N6CW	V51E	- K8EFS
CE0A/W6JKV	- W6JKV	IM0/IK2GSO	- IK2GSO	OA8CW	- KB4EKY	V51Z	- ZS6BUR
CE0A/JG3KUT	- JG3KUT	J52US	- WA8JOC	OA8V	- KB4EKY	V51SW	- G1IOV
CE0ZZZ	- CE3BFZ	J6LB	- KO2A	OH0BT	- OH3FP	V63AD	- JA7HMZ
CN2CW	- F2CW	J6LOV	- K2QIE	OH0BNP	- OH2BNP	V63AN	- JA2NQG
CN2JP	- AE6H	J6LRU	- W8ILC	OH0M/OH2BOZ	- OH2AP	V63AR	- JA2NVY
CN8ST	- K8EFS	J6LRV	- K6GXO	OR0TT	- OR7TK	V63AU	- K6MYC
CO2KK	- W9JUV	J6LSC	- N9AG	OX3LX	- OZ1DJJ	V63AX	- JI2UAY
CP6/KA3B	- KA3B	J6/N9AG	- N9AG	OX/W6JKV	- W6JKV	V63DX	- JA7HMZ
CT1DTQ	- DK3RV	J6/W8NJR	- W8NJR	OY3QN	- OZ1ACB	V63GZ	- JA0GZ
CT/G3SDL	- G3SDL	J73A	- KP2A	OY6FRA	- OY9JD	V63JT	- W6JKV
CT3DH	- OH2SX	J73JW	- K2QIE	P29HS	- JH5KZC	V73AQ	- KX6OI
CT3/W6JKV	- W6JKV	J73LC	- KF4IL	P29KK	- VK4AH	V73AT	- K2CL
CT3/OH1NOA	- OH1NOA	J73LL	- K2QIE	P29PL	- VK9NS	V85AG	- JA9AG
CU2/G3RFS	- G3RFS	J73/W6JKV	- W6JKV	P40H	- N4HSM	V85DA	- VK1DA
CU2/G3KOX	- G3KOX	J79T	- W5EW	P40JT	- W6JKV	VK9CD	- ZL2CD
CU2/W6JKV	- W6JKV	J80A	- JA2MNB	P43FM	- PA0FM	VK9LE	- VK3OT
CY0DXX	- VE1AL	J88AR	- WA4WIP	P4/W3BTX	- W3BTX	VK9LG	- AE6H
CY0SAB	- VE1CBK	J88BN	- WA4WIP	PE1MVJ/MM	- PA3EUI	VK9L/JG3KUT	- JG3KUT
D44/N6TJ	- N6TJ	J88/N4HSM	- N4HSM	PJ7/P43AS	- P43AS	VK9TAX	- ZL2TAX
D68YD	- JL3UIX	J88/W6JKV	- W6JKV	PJ7/W3BTX	- W3BTX	VK9X/VK6BFV	- JA0GPT
D68YH	- JL3UIX	J88/VE3CPU	- VE3CPU	PJ9EE	- YB3CN	VK9YJ	- VK3AWY
D68KN	- JL3UIX	JD1/JH1MAO	- JH1MAO	PJ9JT	- WLAX	VK9ZLX	- VK8ZLX
DULJPN	- JR1BMU	JD1/JH1LDD	- JH1LDD	PJ0M	- K2MUB	VO2/KA1TRF	- KA1TRF
DU1/JR1FWR	- JR1FWR	JD1/JH5EES	- JH5EES	PP8AO	- PY2SB	VP2EE	- KA3BDN
DU1/KG6UH	- KG6UH	JD1/JN1RPM	- JN1RPM	PY0FF	- W9VA	VP2EZ	- WA4WIP
DU3/KE9A	- WB9YXY	JW/ON1CDQ	- ON1CDQ	S79M	- JR4PMX	VP2EME	- W6JKV
DU3/KE0SC	- KE0SC	JW/ON1AOI	- ON1AOI	SV0FE	- K0TLM	VP2EHF	- KA3BDN
DU3/KB6FIQ	- KJ6WO	JX7DFA	- LA2KD	SZ2DH	- SV1DH	VP2EZD	- JA2MNB
DU3/N6USV	- KJ6WO	KC6CQ	- VE3JDO	T20AA	- N4FJL	VP2KBH	- K8EFS
DU3/KJ6WO	- KJ6WO	KC6CW	- JA2NQG	T20JJ	- JF2KOZ	VP2MEZ	- JA2MNB
DU7/N7ET	- N7ET	KC6IN	- V63AO	T20JT	- W6JKV	VP2MJ	- VE3EVW
EA8/G3JVL	- G3JVL	KC6EE	- LA1EE	T30DJ	- W6JKV	VP2MN	- WB2LCH
EA8/G0KWP	- G0KWP	KC6GV	- LA2GV	T30KY	- NH6RT	VP2MO	- WB2LCH
FG0HZW	- W3OTC	KC6DX	- JA2NVY	T32B	- JA1BK	VP2VA	- VE3MJ
FG/F6CBC	- F6CBC	KC6MK	- JH2HLT	T32AB	- N7YL	VP2VI	- AB1U
FG/F6EPY	- F6EPY	KC6MS	- JA2NQC	T32HK	- JL3UIX	VP2VVC	- N6CW
FG/W3OTC	- W3OTC	KC6MZ	- JI2UAY	T32IO	- AH6IO	VP2VDX	- N6CW
FK1TS	- VK3XGK	KC6NX	- JA2KVD	T32LB	- JH1BSE	VP2VGR	- G4FJK
FK/JM1LTA	- JA0VBJ	KC6SW	- JA2KVD	T32VP	- KH6VP	VP5D	- W3HNK
FK/JH0LFE	- JA0VBJ	KC6TY	- JG1RVN	T32YO	- JL3UIX	VP5S	- K1GAO
FK/JH0MGW	- JA0VBJ	KC6WZ	- JA9AG	T33JS	- VK9NS	VP8BKK	- G4RHA
FK/JH0NZN	- JA0VBJ	KC6YU	- JH1NBN	T33RA	- KN6J	VP8PTG	- G4RFV
FK/JH0SPE	- JA0VBJ	KG4SM	- WF0G	T70A	- T77C	VP9/K8WW	- K8WW
FM5WD	- W3HNK	KH2/JK1XPK	- JK1XPK	TA4/G3SDL	- G3SDL	VP9/WF8C	- WF8C
FO0AQ	- F6ESH	KH3/KB5ENR	- KA5WOO	TF3EJ	- TF3KB	VP9/WA4VCC	- WA4VCC
FO3BM	- F2CW	KH3/KH6CJQ	- KH6CJQ	TF6MM	- W3HNK	VQ9IF	- KG5IF
FP000	- K1TOL	KH3/KN0E	- K9UIY	TF/LA6HL	- LA6HL	VQ9LW	- WA2ALY
FP0SM	- W1AIM	KH3/WY5L	- N5DAS	TF/G4ODA	- G4ODA	VQ9QM	- W4QM
FP0GZZ	- K1TOL	KH4/KH2F	- N2AU	TF/G4DHF	- G4DHF	VR6JR	- G3OKQ
FP/KA3B	- KA3B	KH5/AH3C	- JA1BK	TF/PA3DWD	- PA3DWD	VS6CT	- KA6V
FR5QT	- F5QT	KH5/AH6IO	- AH6IO	TG9AWS	- W3HNK	VS6DO	- WA3HUP
FR/JG3KUT	- JA3EGE	KH7/KD7P	- KD7P	TG9NX	- N4FKZ	VS6DX	- WA4BCQ
FS/JA2EZD	- JA2MNB	KH7/KH6JEB	- KH6JEB	TI9/W6JKV	- W6JKV	VS6WV	- K0TLM



VS6UO	- G3IFB	YV5/DL3ZM	- K8EFS	ZP5ZR	- LU8DPM	6W1QC	- JA8KJH
VS6UP	- W7TUP	YV0/W6JKV	- W6JKV	ZS1/ZS9A	- ZS9A	6W1/F6CBC	- F6CBC
VS6WA	- W7TIR	ZB2HN	- G3ZYY	ZS3E	- K8EFS	6W1/JA8RWU	- JA8RWU
WH4/KD7P	- NY6M	ZB2/G4VXE	- G4VXE	ZS3Z	- ZS6BUR	6Y5/K6MYC	- K6MYC
WH0/KC6OPD	- JF2KOZ	ZB0T	- DL1SDN	ZS8MI	- ZS6PT	7Q7JA	- JH8BKL
XE1FUX	- KB9AW	ZB0W	- G6YZC	ZS9Z	- ZS6BUR	7X/FC1EAN	- FC1EAN
XE2GBO	- N6CW	ZB0/G1CWP	- G1CWP	ZW0F	- PY7ZZ	7X/FD1NLQ	- FD1NLQ
XE2GDK	- N6CW	ZC4AB	- ZC4MK	1A0KM	- I0AMU	8P6CX	- K2QIE
XE2MX	- K6VNX	ZD7CW	- N4CID	1S0XV	- JH3DPB	8P6KY	- K2QIE
XE2UZZL	- N6XQ	ZF2BL	- K4QF	3D2SM	- JA1BK	8P6JW	- K2QIE
XE2/W6UZZL	- N6XQ	ZF2EW	- K1FJM	3D2TS	- FK1TS	8P6LL	- K2QIE
XE2/N6CW	- N6CW	ZF2GY	- K6HCP	3D2XV	- VK2BCH	8P6MH	- K2QIE
XE3HLV	- NE8Z	ZF2GF	- N4HSM	3D2YY	- JH4IFF	8P6KX	- K2QIE
XF4L	- OH2BN	ZF2KZ	- OH1ZAA	3W6PY	- UL7PCZ	8P9AC	- JA2MNB
XF4T	- XE2TCQ	ZF8/ZF2AG	- N8AG	3X1SG	- ON6BV	8P9AY	- K1COW
XQ0X	- CE3ESS	ZF8/ZF2NV	- KA3B	4D3HSP	- 4F3BAA	8Q7/JF2MBF	- JF2KOZ
XU1SS	- JA1UT	ZF8/ZF2PL	- SM3TLG	4F3BAA	- JG2PUW	8R1AH	- W4CKD
XV2A	- JH3DPB	ZK1RS	- ZL4DO	4G1A/3	- JF2IIZ	9H1EL	- LA2TO
XW8KVF	- JA1UT	ZK1XD	- VK3YY	4U1UN	- NA2K	9H1IX	- G0GZI
XX9CT	- KA6V	ZK1XT	- FK1TS	4U5ITU	- G3SDL	9H3LF	- G4VXE
XX9DX	- WA4BCQ	ZK1XH	- JR1FYS	5B4/ZC4VHF	- ZC4MK	9J2BO	- W6ORD
XX9JN	- KU9C	ZK1XY	- NH6RT	5H1HK	- JE3MAS	9L1SL	- WA8JOC
XX9KA	- KC9V	ZK2HP	- JR1FYS	5H1YK	- JH8BKL	9L1US	- WA8JOC
XX9UT	- JA1UT	ZK2KK	- SM7PKK	5N2MFE	- G8MFE	9M2/JA1UT	- JA1UT
YB0ARA	- WA6AHF	ZK2KY	- NH6RT	5N0/G3GJQ	- G3GJQ	9M2FMX	- JA1UT
YB0ZDA	- YC0UVO	ZK2RS	- ZL4DO	5N0/KH6HSS	- WA8JOC	9M8SEA	- JA1UT
YJ8GP	- VK4BRG	ZK2/5W1GP	- JH4IFF	5W1GP	- JA6QCF	9M8STA	- JA1UT
YJ0AMI	- JL1RUC	ZK3F	- JA1WHG	5W1GW	- JA8IYK	9N8CC	- JH8BKL
YJ0ALB	- ZL4LB	ZK3KK	- SM7PKK	5W1HC	- JL3UIX	9Q5EE	- K1RH
YJ0ATH	- JH8FAC/7	ZK3KY	- NH6RT	5W1HP	- JR1FYS	9Q5NW	- AL7EL
YJ10IND	- VK4BRG	ZL4OY/A	- ZL2TPY	5W1HQ	- JJ3IMX	9V1ES	- JA1UT
YN1CC	- W3HNC	ZL7OY	- ZL2TPY	5W1HK	- JH4RHF	9V1SEA	- 9V1FH
YN3CC	- W3HNC	ZL7TPY	- ZL2TPY	5W1HS	- JJ3IMX	*****	
YS1OD	- WN5K	ZL7TAX	- ZL2TAX	5W1KT	- AE6H	LATE ADDITIONS	
YS1ECB	- EA7EKX	ZL8OY	- ZL2TPY	5W1IE	- JR3RCT	*****	
YV4AB	- YV4UY	ZL8TPY	- ZL2TPY	5W1IU	- JA1WHG	ZD8Z	- W6CF
YV5ZZ	- K8EFS	ZL9TPY	- ZL2TPY	6K10FM	- JA1UT	ZD8DX	- WB2K
						ZS1/ZS9Z	- OH2BH
						4S7/JA1OEM	- JA1OEM

The QSL Managers listed above are for DX stations and DXpeditions which have been active on 50 MHz since 1983. Please send any additions, corrections or deletions to me as soon as possible. This listing was updated on APRIL 30, 1991. TNX DE KA3B

### A SHORT LESSON ON SPHERICAL GEOMETRY by Shel Remington NI6E/KH6

The direction taken by an electromagnetic wave will always follow a straight line unless otherwise constrained. On a smooth planet such as ours, with its smooth envelope of ionospheric layers, a wave is constrained to hug the curvature. Spherical geometry (see any mariner's navigation textbook) dictates that a refracted wave will follow a great circle path around the planet, either following the "short-path" great circle, or the "long-path" great circle, both of which are unique. Determining these paths is a straightforward (hi) matter when done with a piece of string on a globe. The task becomes more complicated when attempted on a 2-dimensional map, because no such map can fully represent the spherical planet. Most hams are well-acquainted with great circles, and with azimuthal-equidistant map projections which are the only ones suitable for analysis of radio propagation.

The piece by GJ4ICD on the back page of Issue #7 appears to be based on the accompanying modified-Mercator maps, which emphatically do not show great circles as straight lines. For example, those maps obscure the fact that the path from Japan to Buenos Aires is virtually antipodal, and therefore theoretically capable of producing any incoming azimuth from 0° to 360°. In fact, the usual arrival azimuth for JA signals at LU is in the southwest sector, 90° away from the straight-line shown on Geoff's map. So the long-path from JA via LU into northwest Africa, the Mediterranean, and Jersey is a simple great circle and does not require invocation of "sine wave" or other creative geometrical constructs.

**NOTE:** Shel NI6E/KH6 is trying to determine what the lengthiest paths ever worked and heard on 6M were. This can be calculated, for great circle long-path, by subtracting the short-path distance from the earth's circumference. The Southern Hemisphere record is a 29,512 km path (representing 74% of the earth's circumference), which took place on March 28, 1991 when KB6SL/CE3 worked into 7Q7JA via the north Pacific and south Asia at 0711Z (3:11 AM in Santiago, Chile). The U.S. record may be about 30,125 km spanned by WA6BYA on the long-path into Okinawa via Africa. But the World Record seems to be held on the long-paths from Japan to either Austria via South America or Alberta via Africa. These paths are between 30,500 and 32,800 km; it all depends on the exact locations. Could one of our Japanese readers supply information on these openings, or on any more distant ones?



FINAL DAILY INTERNATIONAL SUNSPOT NUMBERS 1989

Year	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1989	01	148	141	127	104	93	136	128	171	147	129	153	198
1989	02	173	144	107	122	94	148	149	196	171	150	160	182
1989	03	146	164	103	140	85	158	129	193	180	167	191	203
1989	04	120	133	98	115	97	157	120	213	204	186	216	182
1989	05	155	127	90	106	85	171	101	227	212	209	228	192
1989	06	142	127	103	139	105	145	120	220	230	189	245	184
1989	07	165	132	98	170	134	130	149	215	267	168	233	217
1989	08	155	161	109	185	149	143	141	218	261	166	215	167
1989	09	165	172	133	153	137	168	116	218	296	187	214	161
1989	10	190	192	163	122	123	192	104	200	270	178	203	148
1989	11	211	190	155	106	120	203	136	202	280	191	179	104
1989	12	229	216	140	96	115	218	111	188	264	154	173	99
1989	13	206	219	162	92	129	253	116	207	248	148	153	107
1989	14	189	208	181	103	123	251	116	197	215	159	140	100
1989	15	177	191	165	120	148	264	92	203	207	189	132	84
1989	16	164	195	187	130	154	265	91	177	180	209	124	101
1989	17	155	209	168	144	161	233	99	192	159	206	124	120
1989	18	160	163	164	137	177	216	113	189	155	184	134	123
1989	19	140	164	148	160	191	235	138	202	152	159	124	131
1989	20	126	169	158	165	195	232	149	209	137	140	141	127
1989	21	114	149	155	175	168	187	170	203	111	152	159	111
1989	22	165	142	155	167	156	174	197	160	109	158	162	150
1989	23	171	134	145	128	180	196	195	133	103	145	157	201
1989	24	142	153	155	135	196	215	168	129	75	131	160	191
1989	25	144	189	131	132	173	227	132	105	80	121	175	209
1989	26	152	163	117	125	157	237	111	82	93	109	184	221
1989	27	157	147	102	118	163	206	99	57	101	97	183	240
1989	28	172	128	89	109	130	187	75	50	111	116	183	249
1989	29	169		95	107	121	182	112	70	134	131	164	213
1989	30	157		78	114	122	156	125	94	150	156	182	214
1989	31	140		91		111		132	116		157		201
Mean		161.3	165.1	131.4	130.6	138.5	196.2	126.9	168.9	176.7	159.4	173.0	165.5

1989 Yearly Mean =157.6

FINAL DAILY INTERNATIONAL SUNSPOT NUMBERS 1990

Year	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1990	01	186	171	173	103	70	96	272	146	120	110	77	127
1990	02	176	161	171	114	59	80	253	175	116	112	81	160
1990	03	166	124	163	113	61	73	264	151	126	140	108	180
1990	04	174	113	126	127	86	77	241	137	134	134	146	186
1990	05	164	97	98	132	80	79	213	128	118	123	154	167
1990	06	144	80	104	138	106	101	186	124	118	124	197	169
1990	07	129	82	105	128	132	107	173	120	112	135	209	182
1990	08	138	95	88	128	138	99	135	136	112	141	208	177
1990	09	125	103	71	88	133	87	102	145	113	148	188	176
1990	10	134	79	80	82	116	107	88	160	121	153	163	175
1990	11	164	75	73	88	126	126	106	161	116	195	167	157
1990	12	172	80	85	77	146	115	110	167	124	192	151	138
1990	13	179	85	83	123	144	122	114	192	142	214	118	117
1990	14	147	75	90	142	141	118	118	215	178	202	119	95
1990	15	157	78	110	171	144	102	98	229	162	218	113	88
1990	16	152	64	129	170	157	110	95	232	156	192	102	104
1990	17	164	54	123	199	167	100	87	269	137	188	110	112
1990	18	177	77	167	203	170	83	57	270	136	181	97	121
1990	19	199	107	202	213	187	79	61	290	151	181	109	134
1990	20	236	134	217	206	187	68	81	295	145	169	98	114
1990	21	217	159	211	212	193	57	123	278	150	136	102	117
1990	22	208	191	195	207	187	71	143	262	141	140	125	99
1990	23	200	239	206	174	160	64	165	281	117	134	114	91
1990	24	191	249	209	157	158	88	201	276	101	131	118	95
1990	25	206	245	204	160	146	94	204	263	94	125	110	101
1990	26	203	234	188	118	134	103	196	220	93	102	117	104
1990	27	211	217	168	124	139	140	177	188	77	111	109	104
1990	28	193	187	129	103	121	184	165	176	113	119	134	111
1990	29	185		132	94	118	203	144	186	119	98	144	109
1990	30	198		133	114	90	230	117	181	115	87	153	103
1990	31	201		115		101		142	155		77		108
Mean		177.3	130.5	140.3	140.3	132.2	105.4	149.4	200.3	125.2	145.5	131.4	129.7

1988 Yearly Mean =142.6

COURTESY: UNITED STATES DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION



**ARUBA OPERATION PLANNED BY PAØFM:** Sjoerd (George) Heeringa PAØFM has informed me that he will be active from Aruba as P43FM from the end of November 1991 through March 1992. His 6M station will consist of a 5 element beam running somewhere between 10-100 watts. QSL cards should go to his home QTH with an SAE, and will be answered during the month of April 1992. In cases where someone would need a QSL card in a hurry, the card can be mailed to his address in Aruba which is: S.J. Heeringa, c/o SAV, 186A, Aruba, Dutch West Indies.

**CE8ABF FD46:** Alex CE8ABF is a new station on 50 MHz who has been very active. Utilizing 100 watts output to a 3 element yagi, Alex is active from Tierra del Fuego Island near the extreme southern tip of Chile. QSL's for CE8ABF are being handled by LU8DPM.

**QSL INFO:** (via LU8DPM): Mario Raul Andraca, P.O. Box 45, 7150 Ayacucho, Buenos Aires, Argentina

**ZP9AE GG22:** Miguel ZP9AE is the latest of ZP's that has shown up on 6M. He only seems to be able to speak Spanish and does not seem to be very familiar with 6M DX'ing; giving his name and complete QSL information after each QSO. (Tnx PA3EUI)

**QSL INFO:** Miguel Borecki ZP9AE, 14 de Mayo 359, Encarnacion, Itapua, Paraguay

**REPORT FROM PY5CC:** Peter PY5CC continues to be very active and has once again sent along a very impressive list of the DX he worked during the month of April. Peter says, "The month of April was fantastic with very good openings to Europe and South Africa and I finally got country #100 when I worked A22BW." The new countries worked by PY5CC during April were: UAØHA, OH2BC, PA2VST, KH4AF, OZ1ELF, GU2HML, SM7FJE, EI5FK, KA3B/CP6, V5ØAC, ZS1EK, KG6DX, AH3AD, VK7IK, YN1CC, 1AØKM, 3DAØBK, Z23JO, A22BW, VP2EHF, FS/JL1RUC, and HI8W. The QSO with HI8W was Peter's country #103.

**QSL INFO:** Peter Zoch Sprengel PY5CC, P.O. Box 07, Matinhos - PR - 83.260, Brazil

## A S I A N N E W S

**JE3TXU/JY AMMAN, JORDAN:** Tadashi JE3TXU will be in Amman, Jordan once again until July 1991. He will only be QRV cross-band 6M/10M.

**UL7GCC BEACON NOW QRV:** Mike UL7GCC is currently running a beacon on 6M. The callsign is UL7GCC/RL3Q and it is operational from grid square MN38KB. Operating parameters are 3 watts PEP output into a 1/4 wave ground plane running from 1500-0300 UTC daily. (UL7GCC via PAØOOS on 28.885)

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**CORRECTION FROM LAST ISSUE:** The following letter was received from Shel Remington NI6E/KH6:  
 "Egregious Error Department: I was mistaken about the new title of Davies' 2nd Edition - the word "ionospheric" has not been dropped from the title. So please scratch out the sentence about the title change (and my speculation thereupon)." Shel would also like to know if anyone would be interested in organizing a group purchase of this book.

\*\*\*\*\*  
**ARRL JUNE VHF QSO PARTY:** Issue #11 of the 50 MHz DX Bulletin will be mailed to subscribers around May 31st and will be the last newsletter posted prior to the June VHF Contest which will take place over the weekend of June 8-9. I would like to publicize as many 6M DXpeditions and Grid-expeditions as possible as most of you will receive issue #11 several days before the contest weekend. To ensure that any DXpedition or Grid-expedition news gets into the next issue, please get your info to me as soon as possible.

Information needed would be: dates of the planned operation, callsign(s) to be used, equipment (power output and antenna), grid squares to be activated, operators taking part, QSL information, and any other important data. As of today (May 15), I am only aware of two DXpeditions - WA4VCC/VP9 and FS/KA3B. There is the possibility of a FP (St. Pierre & Miquelon) operation but I haven't received a confirmation on this as yet.

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**THE 50 MHz DX BULLETIN**  
**ARRY A. SCHOOLS KA3B**  
**606 SOUTH NEWKIRK STREET**  
**HILADELPHIA, PA. 19145**  
**.S.A.**

TO: